- 1/1 (C) WPI / DERWENT
- AN 2002-010886 [01]
- AP W02001US11988 20010412; AU20010066557 20010412; [Based on W00177137]; EP20010944114 20010412
- PR US20000256931P 20001221; US20000229358P 20000412; US20000199384P 20000425
- TI New fusion protein for treating disease e.g. diabetes comprises an albumin fused to a therapeutic protein
- IW NEW FUSE PROTEIN TREAT DISEASE DIABETES COMPRISE ALBUMIN FUSE THERAPEUTIC PROTEIN
- PA (HUMA-N) HUMAN GENOME SCI INC
- PN W00177137A1, 20011018 DW200201 C07H21/04 Eng 000pp
 - AU200166557 A 20011023 DW200213 C07H21/04 000pp
 - EP1276756 A1 20030122 DW200315 C07H21/04 Eng 000pp
- IC C07H21/04
- AB W0200177137 NOVELTY An albumin fusion protein (I) comprising a therapeutic protein X and albumin comprising a fully defined 585 amino acid sequence (S1) given in the specification, is new.
 - DETAILED DESCRIPTION INDEPENDENT CLAIMS are also included for the following:
 - (1) an albumin fusion protein (II) comprising a therapeutic protein X and a fragment or variant of S1 having albumin activity;
 - (2) an albumin fusion protein (III) comprising a fragment or variant of therapeutic protein X and an albumin having \$1;
 - (3) an albumin fusion protein (IV) comprising a protein X, fragment or variant inserted into an albumin comprising S1;
 - (4) a kit comprising the protein;
 - (5) a nucleic acid molecule comprising a polynucleotide sequence encoding (I)-(IV);
 - (6) a vector comprising the nucleic acid molecule; and
 - (7) a host cell comprising the nucleic acid molecule.
 - ACTIVITY Cytostatic; antiinfertility; antiinflammatory; antiulcer; immunomodulator; anti-HIV; antidiabetic; hemostatic; nootropic; neuroprotective; antiparkinsonian; antimicrobial; neuroleptic; osteopathic; antiarthritic.
 - MECHANISM OF ACTION gene-therapy; vaccine.
 - USE -- The protein is useful for treating a disease or disorder that may modulated by therapeutic protein X (claimed). The albumin extends the shelf-life of protein X, and may increase its biological in vitro/in vivo activity (claimed). The protein is useful for treating and diagnosing e.g. cancer, reproductive disorders, digestive disorders (e.g. Crohn's disease, ulcerative colitis), immune disorders (e.g. AIDS), endocrine disorders (e.g. diabetes), hematopoietic disorders, neural disorders (e.g. Alzheimer's, Parkinson's, Creutzfeldt-Jacob disease, encephalomyelitis, meningitis, schizophrenia) and a connective disorder (e.g. osteoporosis, arthritis).
 - (Dwg.0/15)

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS OF REC'D PCT/PTO 17 JUN 2005

369415-18-9 REGISTRY

296: PN: W00177137 SECID- 1000 L1RN

296: PN: WO0177137 SEQID: 1962 unclaimed protein (9CI) (CA INDEX NAME) CN

FS PROTEIN SEQUENCE

SQL 305

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PATENT ANNOTATIONS (PNTE):

Sequence | Patent Source | Reference Not Given WO2001077137 unclaimed

|SEQID 1962

SEO 1 MPANFTEGSF DSSGTGQTLD SSPVACTETV TFTEVVEGKE WGSFYYSFKT

51 EQLITLWVLF VFTIVGNSVV LFSTWRRKKK SRMTFFVTQL AITEKQARVL

101 IVIAWSLSFL FSIPTLIIFG KRTLSNGEVQ CWALWPDDSY WTPYMTIVAF

151 LVYFIPLTII SIMYGIVIRT IWIKSKTYET VISNCSDGKL CSSYNRGLIS

201 KAKIKAIKYS IIIILAFICC WSPYFLFDIL DNFNLLPDTQ ERFYASVIIQ

251 NLPALNSAIN PLIYCVFSSS ISFPCREQRS QDSRMTFRER TERHEMQILS

301 KPEFI

(402537-80-8) Secretory protein (human clone HTPIY88 305-amino acid precursor)

Score = 617 Expect = e-176

Identities = 305/305 (100%) Positives = 305/305 (100%)

Query: 1 MPANFTEGSFDSSGTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLIT

55

MPANFTEGSFDSSGTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLIT

Subject: 1 MPANFTEGSFDSSGTGQTLDSSPVACTETVTFTEVVEGKEWGSFYYSFKTEQLIT

55

Query: 56 LWVLFVFTIVGNSVVLFSTWRRKKKSRMTFFVTQLAITEKQARVLIVIAWSLSFL

110

LWVLFVFTIVGNSVVLFSTWRRKKKSRMTFFVTQLAITEKQARVLIVIAWSLSFL

Subject: 56 LWVLFVFTIVGNSVVLFSTWRRKKKSRMTFFVTQLAITEKQARVLIVIAWSLSFL

110

Query: 111 FSIPTLIIFGKRTLSNGEVQCWALWPDDSYWTPYMTIVAFLVYFIPLTIISIMYG

165

FSIPTLIIFGKRTLSNGEVQCWALWPDDSYWTPYMTIVAFLVYFIPLTIISIMYG

Subject: 111 FSIPTLIIFGKRTLSNGEVQCWALWPDDSYWTPYMTIVAFLVYFIPLTIISIMYG

165

Query: 166 IVIRTIWIKSKTYETVISNCSDGKLCSSYNRGLISKAKIKAIKYSIIIILAFICC

220

IVIRTIWIKSKTYETVISNCSDGKLCSSYNRGLISKAKIKAIKYSIIIILAFICC

Subject: 166 IVIRTIWIKSKTYETVISNCSDGKLCSSYNRGLISKAKIKAIKYSIIIILAFICC

220

Query: 221 WSPYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPC

275

WSPYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPC

Subject: 221 WSPYFLFDILDNFNLLPDTQERFYASVIIQNLPALNSAINPLIYCVFSSSISFPC

275

Query: 276 REQRSQDSRMTFRERTERHEMQILSKPEFI 305

REQRSQDSRMTFRERTERHEMQILSKPEFI

Subject: 276 REQRSQDSRMTFRERTERHEMQILSKPEFI 305